

THERMOPLASTIC RESIN FILM AND PROCESS FOR PRODUCING THE SAME

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Cited documents:

JP2001096616 (A)
JP2001058377 (A)
JP2001295051 (A)
WO9404601 (A1)
JP60240434 (A)

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Abstract of WO 03055937 (A1)

A heat-shrinkable resin film which has a heat shrinkage in the maximum shrinkage direction of 20% or higher when a 10 cm by 10 cm square sample cut out thereof is immersed in 85 DEG C water for 10 seconds, pulled out, subsequently immersed in 25 DEG C water for 10 seconds, and then pulled out, characterized in that the content of nitrogen atoms in a film surface is 0.1 to 3.0% and the film surface has a wet tension of 36 mN/m or higher; ; and a film roll obtained by winding up the heat-shrinkable resin film, characterized in that when the rolled film is sampled at a first sampling part located up to 2 m apart from the end of the rolled film and at other sampling parts located after the first sampling part at intervals of about 100 m and the average nitrogen content of each sample is calculated, then the nitrogen content of each sample is within the $\pm 0.8\%$ range based on that average nitrogen content.

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